

Publications

Revised June, 2022

1. Pye, H.O.T., Place, B.K., Murphy, B.N., Seltzer, K.M., D'Ambro, E.L., Allen, C., Piletic, I., Farrel, S., Schwantes, R.H., **Coggon, M.M.**, Saunders, E., Xu, L., Sawar, G., Hutzell, B., Foley, K.M., Pouliot, G., Stockwell, W.R. (2022). Linking gas, particulate, and toxic endpoints to air emissions in the Community Regional Atmospheric Chemistry Multiphase Mechanism (CRACMM) version 1.0. *Atmos. Chem. Phys.*, submitted.
2. June, N.A., Hodshire, A.L., Wiggins, E.B., Winstead, E.L., Robinson, C.E., Thornhill, K.L., Sanchez, K.J., Moore, R.H., Pagonis, D., Guo, H., Campuzano-Jost, P., Jimenez, J.L., **Coggon, M.M.**, Dean-Day, J.M., Bui, T.P., Peischl, J., Yokelson, R.J., Alvarado, M.J., Kreidenwis, S.M., Jathar, S.H., Pierce, J.R. (2022). *Atmos. Chem. Phys.*, submitted.
3. Bourgeois, I., Peischl, J., Neuman, J.A., Brown, S.S., Allen, H., Campuzano-Jost, P., **Coggon, M.M.**, Crouse, J.D., DiGangi, J.P., Diskin, G.S., Gilman, J.B., Gkatzelis, G.I., Guo, H., Halliday, H.A., Hanisco, T.F., Holmes, C.D., Huey, L.G., Jimenez, J.L., Lamplugh, A., Lee, Y.R., Nowak, J.B., Pagonis, D., Rickly, P.S., Rollins, A.W., Schwarz, J.P., St. Clair, J.M., Tanner, D., Vasquez, K.T., Veres, P.R., Warneke, C., Wennberg, P.O., Womack, C.C., Xu, L., Ryerson, T.B. (2022) Comparison of airborne measurements of NO, NO₂, HONO, NO_y, and CO during FIREX-AQ. *Atmos. Chem. Phys.*, submitted
4. Roberts, J., Neuman, J.A., Brown, S.S., Veres, P.R., **Coggon, M.M.**, Stockwell, C.E., Warneke, C., Peischl, J., Robinson, M.A. (2022). Furoyl peroxyxynitrate (fur-PAN), a product of VOC-NO_x photochemistry from biomass burning emissions: Photochemical synthesis, calibration, chemical characterization, and first atmospheric observations. *Environ. Sci. Atmos.*, submitted
5. Liu, S., Barletta, B., Hornbrook, R.S., Fried, A., Peischl, J., Meinardi, S., **Coggon, M.M.** Lamplugh, A., Gilman, J.B., Gkatzelis, G.I., Warneke, C., Apel, E.C., Hills, A.J., Bourgeois, I., Walega, J., Weibring, P., Richter, D., Kuwayama, T., FitzGibbon, M., Blake D. (2022) Composition and Reactivity of Volatile Organic Compounds in the South Coast Air Basin and San Joaquin Valley of California, *Atmos. Chem. Phys.*, submitted
6. Stockwell, C.E., Bela, M.M., **Coggon, M.M.**, Gkatzelis, G.I., Wiggins, E., Gargulinski, E.M., Shingler, T., Fenn, M., Griffin, D., Holmes, C.D., Ye, X., Saide, P. E., Bourgeois, I., Peischl, J., Womack, C.C., Washenfelder, R.A., Veres, P.R., Neuman, A.J., Gilman, J.B., Lamplugh, A., Schwantes, R.H., McKeen, S.A., Wisthaler, A., Piel, F., Guo, H., Campuzano-Jost, P., Jimenez, J.L., Fried, A., Hanisco, J.B., Huey, L.G., Perring, A., Katich, J.M., Diskin, G.S., Nowak, J.B., Bui, T.P., Halliday, H.S., Digangi, J.P., Pereria, G., James, E.P., Ahmadov, R., McLinden, C.A., Soja, A.J., Moore, R.H., Hair, J.W., Warneke, C. (2022) Airborne emission rate measurements validate remote sensing observations and emission inventories of western U.S. wildfires. *Environ. Sci. Technol.*, DOI: 10.1021/acs.est.1c07121
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 15. Stockwell, C.E., **Coggon, M.M.**, Gatzelis, G.I., Ortega, J., McDonald, B.C., Peischl, J., Aikin, K., Gilman, J.B., Trainer, M., Warneke, C. (2021) Volatile organic compound emissions from solvent- and water-borne coatings: compositional differences and tracer compound identifications, *Atmos. Chem. Phys.*, 21, 6005-6022, DOI: 10.5194/acp-21-6005-2021.
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* Indicates co-first authorship

Book Chapters

1. Schwantes, R.A., McVay, R.C., Zhang, X., **Coggon, M.M.**, Lignell, H., Flagan, R.C., Wennberg, P.O., Seinfeld, J.H. **Advances in Atmospheric Chemistry**, Chapter 1: Science of the Environmental Chamber. Singapore: World Scientific Publishing Co, 2017.

Select Presentations

1. **Coggon, M.M.**, et al. Evaluating Contributions of Volatile Chemical Products to Ozone and Urban Atmospheric Chemistry (invited), American Meteorological Society - Annual Conference, Virtual, January, 2022.
2. **Coggon, M.M.**, et al. Connecting laboratory and field measurements of smoke composition to build a framework explaining ozone formation from Western U.S. wildfires measured during FIREX-AQ (invited), American Geophysical Union - Annual Conference, San Francisco, CA., December, 2020.
3. **Coggon, M.M.**, et al. Updating chemical mechanisms to include the OH oxidation of key reactive biomass burning non-methane organic gases. Atmospheric Chemical Mechanisms Conference (invited), Davis, CA, Nov, 2020.
4. **Coggon, M.M.**. The Human Forest: Volatile Chemical Products Contribute to Urban Air Pollution, NOAA Chemical Sciences Laboratory Seminar, Boulder, CO, February, 2020.
5. **Coggon, M.M.**, Gkatzelis, G., McDonald, B., Gilman, Peischl, J., McKeen, S., Warneke, C. The Human Forest: Volatile Chemical Products Contribute to Urban Air Pollution, EPA Indoor Air Seminar, Washington D.C., February, 2020.
6. **Coggon, M.M.**, Gkatzelis, G., Lim, C., Koss, A., Yuan, B., Hagan, D., Zarzana, K., Gilman, J., Selimovic, V., Krechmer, J., Muller, M., Sekimoto, K., Roberts, J., Wisthaler, A., Brown, S., Yokelson, R., Jimenez, J., Cappa, C., Kroll, J., de Gouw, J., Warneke, C. Box Model Assessments of Biomass Burning Smoke Oxidation and the Interplay Between VOCs, NO_x, and NO_y, American Geophysical Union - Annual Conference, San Francisco, CA., December, 2019.
7. **Coggon, M.M.**, Gkatzelis, G., McDonald, B., Gilman, Peischl, J., McKeen, S., Warneke, C. How Emissions from the Indoor Environment Impact Outdoor Air Pollution, AAAS Chemistry in Indoor Environments Symposium, Washington D.C., September, 2019.
8. **Coggon, M.M.**, Deodorant, Cleaning Products, and the Virtue of Smelling Bad: Investigations into Emerging Sources of Air Pollution From Consumer Chemical Products. Atmospheric Sciences Seminar, Texas A&M, College Station, TX, April, 2019.
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- Emerging Sources of Air Pollution From Consumer Chemical Products. Sloan Indoor Air Conference, Boulder, CO, October, 2018.
11. **Coggon, M.M.** Deodorant, Cleaning Products, and the Virtue of Smelling Bad: Investigations into Emerging Sources of Air Pollution From Consumer Chemical Products. National Center for Atmospheric Research, Boulder, CO, April, 2018.
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